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NO. A00554-11510-00013

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Hahn, et al.

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Serial No.: 09/532,208

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Filed: March 22, 2000

) 9-22-00 *John S Paniaguas*
John S. Paniaguas
Date Registration No. 31,051
Attorney for Applicant(s)

Title: Web Based Network Monitoring Tool

Group Art Unit: 2743

Examiner: N/A

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TC 2700 MAIL ROOM

LETTER TO OFFICIAL DRAFTSMAN

Hon. Commissioner of Patents

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Washington, D.C. 20231

Sir:

Enclosed are twenty (20) sheets of formal drawings for the above-identified case. These drawings should be substituted for the drawings currently on the file. Please charge any drawing comparison fee to the Deposit Account of the undersigned (Deposit Account No. 50-1214).

Respectfully submitted,

KATTEN MUCHIN ZAVIS

By: *John S Paniaguas*
John S. Paniaguas
Registration No. 31,051

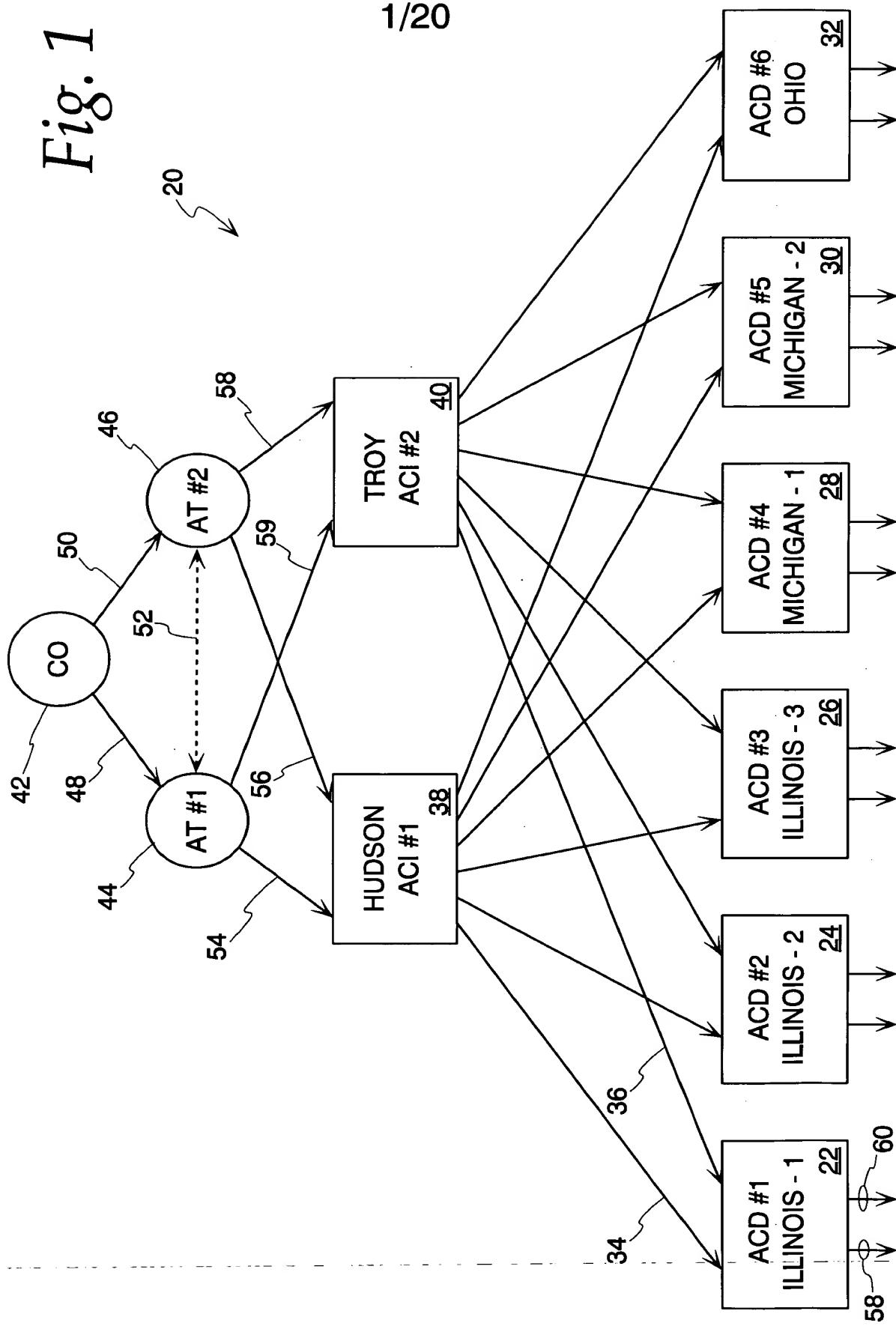
Date: 9-22-00

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20710288

S.N. 09/532208

Fig. 1

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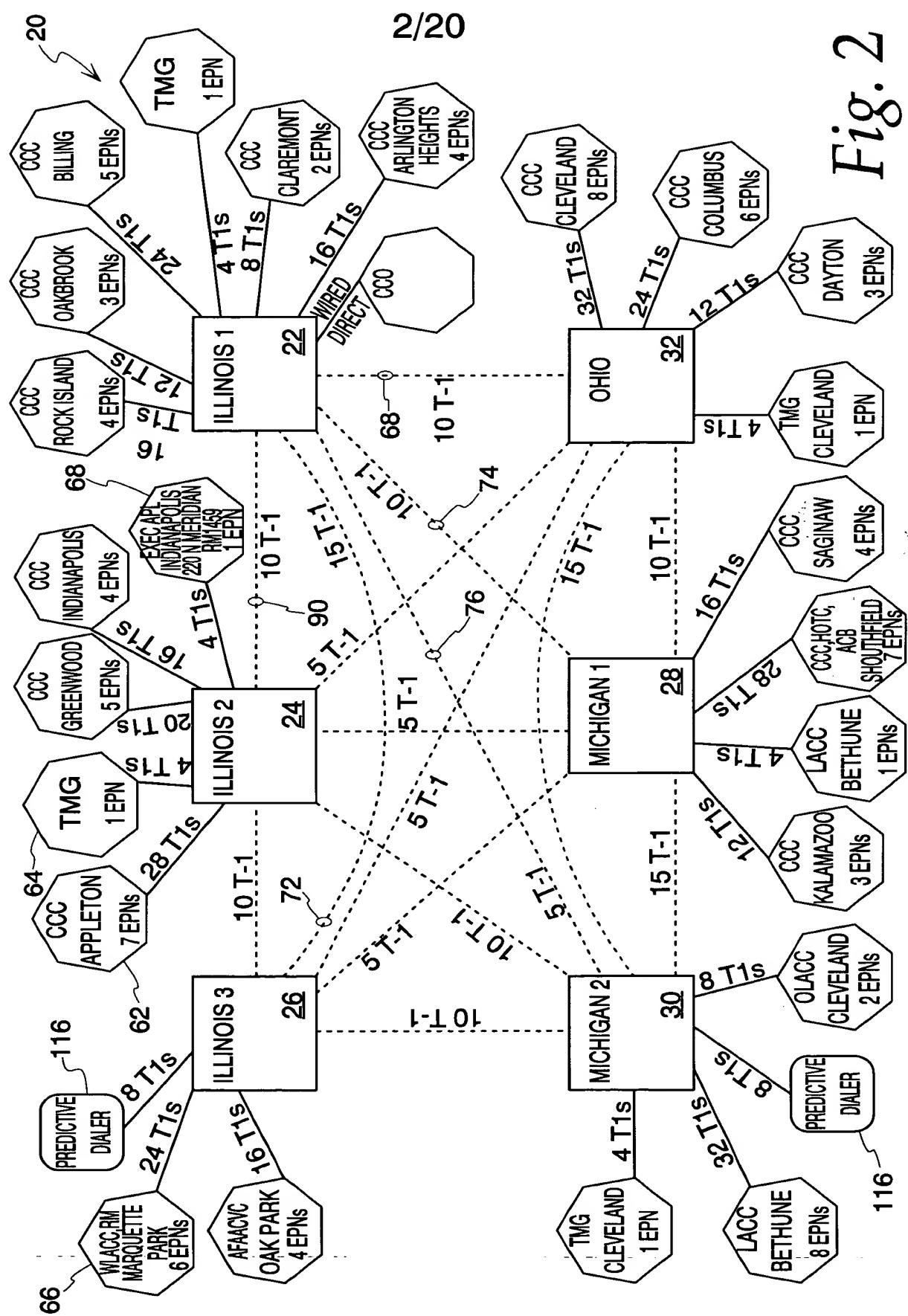
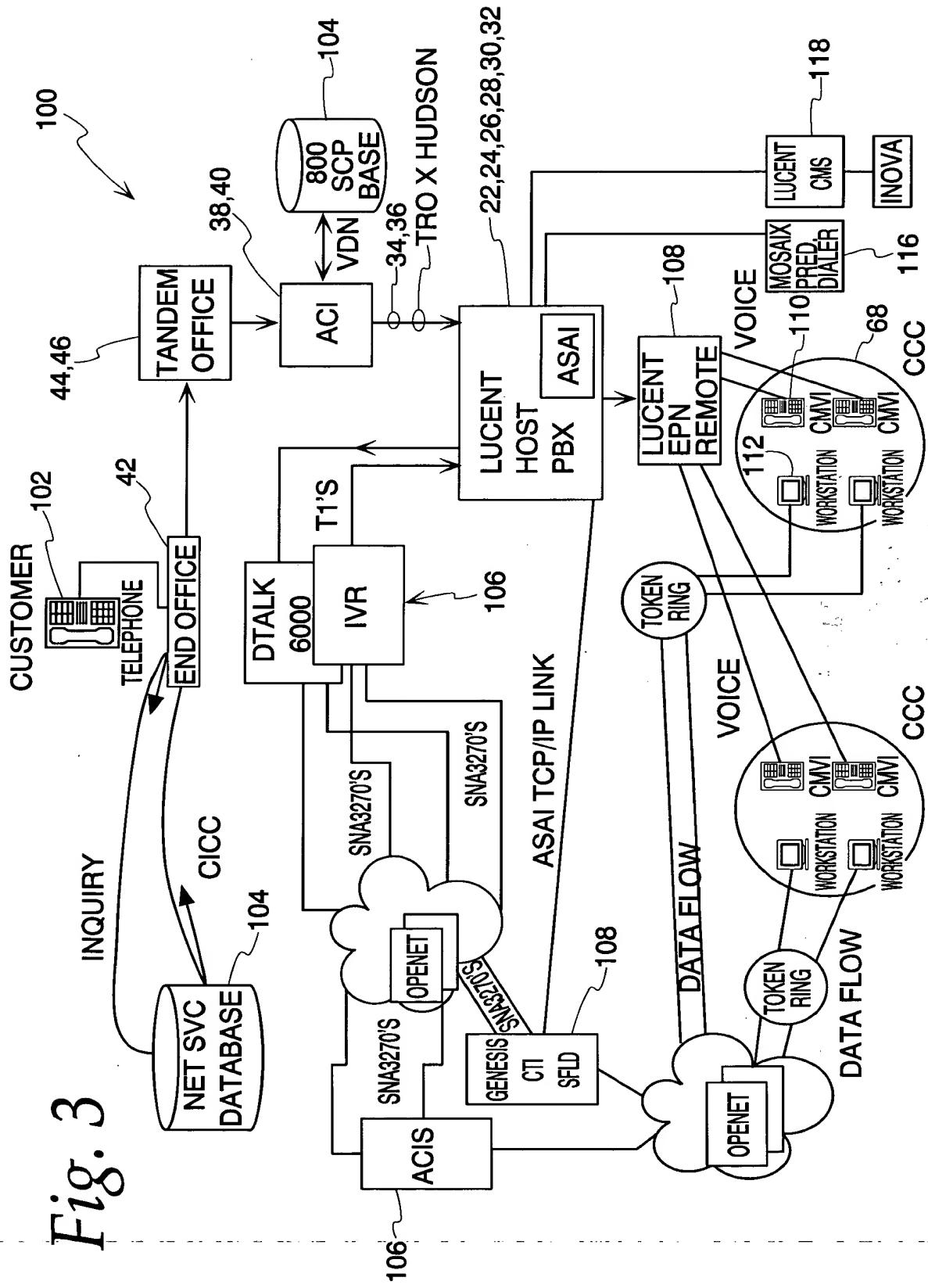


Fig. 2

Fig. 3



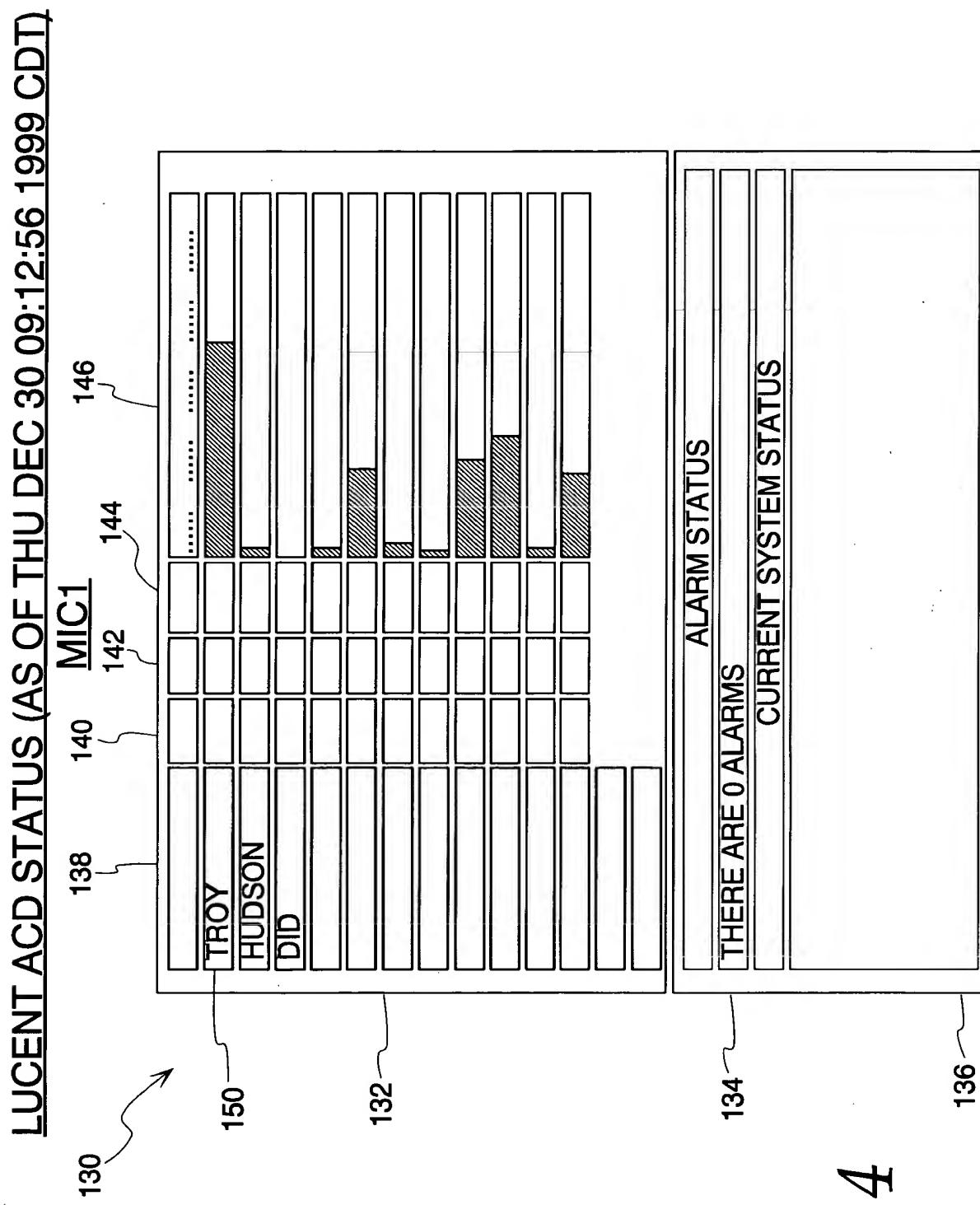


Fig. 4

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Fig. 5a

11:ACI TROY

TGN	OE	CKT ID	ALARM STATUS	CSU_A	CSU_Z	MISC
011	003A19	HCGS 324230	NONE	N/A	N/A	TROY TGN 623
	004A18	HCGS 324330	NONE	N/A	N/A	
	002A13	HCGS 324331	NONE	N/A	N/A	
	004A11	HCGS 324332	NONE	N/A	N/A	
	001A09	HCGS 324333	NONE	N/A	N/A	

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13:ACI TROY

TGN	OE	CKT ID	ALARM STATUS	CSU_A	CSU_Z	MISC
013	005E15	HCGS 324339	NONE	N/A	N/A	TROY TGN 626
	006E15	HCGS 324340	NONE	N/A	N/A	
	005E11	HCGS 324341	NONE	N/A	N/A	
	006E11	HCGS 324342	NONE	N/A	N/A	
	007E10	HCGS 324343	NONE	N/A	N/A	

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15:ACI TROY

TGN	OE	CKT ID	ALARM STATUS	CSU_A	CSU_Z	MISC
015	003A17	HCGS 324349	NONE	N/A	N/A	TROY TGN 627
	004A17	HCGS 324350	NONE	N/A	N/A	
	004A12	HCGS 324351	NONE	N/A	N/A	
	005A12	HCGS 324352	NONE	N/A	N/A	
	006A12	HCGS 324353	NONE	N/A	N/A	

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17:ACI TROY

TGN	OE	CKT ID	ALARM STATUS	CSU_A	CSU_Z	MISC
017	004E17	HCGS 324483	NONE	N/A	N/A	TROY TGN 629
	005E17	HCGS 324484	NONE	N/A	N/A	
	006A17	HCGS 324485	NONE	N/A	N/A	
	007A17	HCGS 324486	NONE	N/A	N/A	
	007E17	HCGS 324487	NONE	N/A	N/A	

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18:ACI TROY

TGN	OE	CKT ID	ALARM STATUS	CSU_A	CSU_Z	MISC
018	004E18	HCGS 324488	NONE	N/A	N/A	TROY TGN 624
	005E18	HCGS 324489	NONE	N/A	N/A	
	006E18	HCGS 324490	NONE	N/A	N/A	
	007A18	HCGS 324491	NONE	N/A	N/A	
	007E18	HCGS 324492	NONE	N/A	N/A	

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19:ACI TROY

TGN	OE	CKT ID	ALARM STATUS	CSU_A	CSU_Z	MISC
019	004E19	HCGS 324493	NONE	N/A	N/A	TROY TGN 634
	005E19	HCGS 324494	NONE	N/A	N/A	
	004E13	HCGS 324495	NONE	N/A	N/A	
	005E13	HCGS 324496	NONE	N/A	N/A	
	006E14	HCGS 324497	NONE	N/A	N/A	

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Fig. 5b

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CALL ACI, CHOOSE OPTION 2 FOR TROUBLE REFERRALS.

CIRCUIT DETAILS

CKT S /HCGS/324230	/MB	A TROYMIUOWOO	Z DTRTMIBL6CD
CLO MIS123927001	DV ACT IE IND PRQ SSP TSP MSC N MCO DTRTMIBSHC		
CAC SVF2BP3 CUST AMERITECHCOMMUNICATI	PULS -- MW B EML OBJ	PG 01 OF 04	
M SEQ A LOCATION SV EQPT/FAC RR/TYPE UNIT A TLP Z	SBDV/MISC TP		
002 E THIS IS A PRO-CDS DESIGN		N	
004 I MODEL = 8589 DESI GN = 2		N	
006 X TROYMIUOWOO # LINE C ODE=B8Z**		N	
008 X TROYMIUOWOO **SIGNAL CODE=ESF* *		N	
010 I PROCESSED BY FLOWTHRU ID:HICAP - A VERS : 002	STAMP : 041295 130406	N	
012 TROYMIUOWOO 04DS6/ 44 /		NI	
014 HCG-		NC	
016	STA ADDR	N	
018 TROY	EU CITY	N	
020 MI	EU STATE	N	
022 W TROYMIUOWOO DEMARC		S	
024 TROYMIUOWOO POI		XA	
026 W X4 806 T3 2	IC	X#	
028	OWNER=B-BX	XX	
030	E=DTRTMIBLK07	XX	
032 MB 0094.5	MI 0094.5 ZL D#		
034 DTRTMIBLK07 EE31F	F07/07 /0397 XZ		
036 DTRTMIBLK06 T3MAE412 040473.11 1916	F66/13 /08 /4 XM		
CKT S /HCGS/324230	/MB	A TROYMIUOWOO	Z DTRTMIBL6CD
CLO MIS123927001	DV ACT IE IND PRQ SSP TSP MSC N MCO DTRTMIBSHC		
CAC SVF2BP3 CUST AMERITECHCOMMUNICATI	PULS -- MW B EML OBJ	PG 02 OF 04	
M SEQ A LOCATION SV EQPT/FAC RR/TYPE UNIT A TLP Z	SBDV/MISC TP		
038 DTRTMIBLK07 T1MBDX01 040483.02B ACSA		XH	
040 DTRTMIBLK07 T1MBDY01 040482.02C CSSA2		XH	
042 DTRTMIBLK07 T1MBDZ01 040482.02B ESSA2		XH	
044 DTRTMIBLK07 T1MBD901 040480.12A 1		XH	
046 DTRTMIBLK07 T1MBD901 040480.12A 1-17		XH	
048 DTRTMIBLK07 DCS55NNNSC		XF	
050 DTRTMIBLK07 T1MBD9Y1 040482.02B 0397	F66/12 /07 /4 XM		
052 DTRTMIBLK07	F07/07 /0397 EX		

Fig. 6a

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054 E DTRTMIBLK07	/K07	/FE/DAB/ 01/	N1
056 E DTRTMIBLK07	035-16	/	N2
058 E DTRTMIBLK07	T1 /		N3
060 DTRTMIBLK07	T1MBDX01 040483.02B ACSA		EH
062 DTRTMIBLK07	T1MBDY01 040482.01C CSSA1		EH
064 DTRTMIBLK07	T1MBDZ01 040482.01B ESSA1		EH
066 DTRTMIBLK07	T1MBD801 040481.03A 1		EH
068 DTRTMIBLK07	T1MBD831 040481.03A 1-27		EH
070 DTRTMIBLK07	DCS5NNNF7		F#
072 W DTRTMIBLK07	T1MBD8S1 040482.01B 035-16	F93/03 /02 /44 EU	
CKT S /HCGS/324230	/MB	A TROYMIUOWOO Z DTRTMIBL6CD	
CLO MIS123927001	DV ACT IE IND PRQ SSP TSP MSC N MCO	DTRTMIBHSHC	
CAC SVF2BP3 CUST AMERITECHCOMMUNICATI	PULS -- MW B EML OBJ	PG 03 OF 04	
M SEQ A LOCATION SV EQPT/FAC	RR/TYPE UNIT A TLP Z	SBDV/MISC TP	
074 DTRTMIBLK07		F07/07 /035 EX	
076 DTRTMIBLK07	SD=TSLS- 5500		EX
078 DTRTMIBLK07	\$FEPMTYP E=ANSI403; FEPM=		EX
080 DTRTMIBLK07	ON;DS1 F ORMAT MUST =ESF;		EX
082 DTRTMIBLK07	NEPM=OFF		EX
084 DTRTMIBL	NCT2YGEEE		F#
086 W DTRTMIBL	T1ML1971 11CAB1 0114	F93/07 /06 /14 EM	
088 W DTRTMIBL	T1IUJ222 IP03191235	P	
090 DTRTMIBL	\$**PM SM ARTJACK** S1=NA		PX
092 DTRTMIBL	,S2-1=DI SABLE,S2-2 =DISA		PX
094 DTRTMIBL	BLE,S2-3 =DISABLE, S 2-4=E		PX
096 DTRTMIBL	NABLE,S2 -5=ESF, S3= 7.5D.		PX
098 DTRTMIBL	B, S4=SHO RT, S5=DISA BLE,S		PX
100 DTRTMIBL	6=ON, S7= ENABLE		PX
102 W DTRTMIBL6CD	DEMARC		S
104		STA ADDR	N
106	11	EU FLR	N
108	1129	EU ROOM	N
CKT S /HCGS/324230	/MB	A TROYMIUOWOO Z DTRTMIBL6CD	
CLO MIS123927001	DV ACT IE IND PRQ SSP TSP MSC N MCO	DTRTMIBHSHC	
CAC SVF2BP3 CUST AMERITECHCOMMUNICATI	PULS -- MW B EML OBJ	PG 04 OF 04	
M SEQ A LOCATION SV EQPT/FAC	RR/TYPE UNIT A TLP Z	SBDV/MISC TP	
110	DETROIT	EU CITY	N
112	MI	EU STATE	N
114 DTRTMIBL6CD	04DU9/ 1SN/		NI
116 DTRTMIBL6CD	DTRTMIBL 6CD CONSUM ER		NX

Fig. 6b

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EPN: BETHUNE (IT)

EPN	HOST PORT	CKT ID	ALARM STATUS	CSU_A	CSU_Z	REMOTE PORT
14	001 C 12 A	DHDZ 791565	NONE	144.151.178.37	N/A	008 A 02 A
	001 C 12 B	DHDZ 791566	NONE	144.151.178.38	N/A	008 A 02 B
	001 C 12 C	DHDZ 791567	NONE	144.151.178.39	N/A	008 A 02 C
	001 C 12 D	DHDZ 791568	NONE	144.151.178.40	N/A	008 A 02 D

EPN: KALAMAZOO

EPN	HOST PORT	CKT ID	ALARM STATUS	CSU_A	CSU_Z	REMOTE PORT
25	001 C 11 A	DHDZ 708222	NONE	144.151.178.57	N/A	020 A 02 A
	001 C 11 B	DHDZ 708223	NONE	144.151.178.58	N/A	020 A 02 B
	001 C 11 C	DHDZ 708224	NONE	144.151.178.59	N/A	020 A 02 C
	001 C 11 D	DHDZ 708225	NONE	144.151.178.60	N/A	020 A 02 D
26	001 E 01 A	DHDZ 708226	NONE	144.151.178.149	N/A	021 A 02 A
	001 E 01 B	DHDZ 708227	NONE	144.151.178.150	N/A	021 A 02 B
	001 E 01 C	DHDZ 708228	NONE	144.151.178.151	N/A	021 A 02 C
	001 E 01 D	DHDZ 708229	NONE	144.151.178.152	N/A	021 A 02 D
27	002 B 11 A	DHDZ 708230	NONE	144.151.178.153	N/A	022 A 02 A
	002 B 11 B	DHDZ 708231	NONE	144.151.178.154	N/A	022 A 02 B
	002 B 11 C	DHDZ 708232	NONE	144.151.178.155	N/A	022 A 02 C
	002 B 11 D	DHDZ 708233	NONE	144.151.178.156	N/A	022 A 02 D

EPN: SAGINAW

EPN	HOST PORT	CKT ID	ALARM STATUS	CSU_A	CSU_Z	REMOTE PORT
28	002 E 01 A	DHDZ 708234	NONE	144.151.178.25	N/A	023 A 02 A
	002 E 01 B	DHDZ 708235	NONE	144.151.178.26	N/A	023 A 02 B
	002 E 01 C	DHDZ 708236	NONE	144.151.178.27	N/A	023 A 02 C
	002 E 01 D	DHDZ 708237	NONE	144.151.178.28	N/A	023 A 02 D
29	002 E 21 A	DHDZ 708238	NONE	144.151.178.41	N/A	024 A 02 A
	002 E 21 B	DHDZ 708239	NONE	144.151.178.42	N/A	024 A 02 B
	002 E 21 C	DHDZ 708240	NONE	144.151.178.43	N/A	024 A 02 C
	002 E 21 D	DHDZ 708241	NONE	144.151.178.44	N/A	024 A 02 D
30	003 E 01 A	DHDZ 708242	NONE	144.151.178.121	N/A	025 A 02 A
	003 E 01 B	DHDZ 708243	NONE	144.151.178.122	N/A	025 A 02 B
	003 E 01 C	DHDZ 708244	NONE	144.151.178.123	N/A	025 A 02 C
	003 E 01 D	DHDZ 708245	NONE	144.151.178.124	N/A	025 A 02 D
31	003 E 21 A	DHDZ 708246	NONE	144.151.178.137	N/A	026 A 02 A
	003 E 21 B	DHDZ 708247	NONE	144.151.178.138	N/A	026 A 02 B
	003 E 21 C	DHDZ 708248	NONE	144.151.178.139	N/A	026 A 02 C
	003 E 21 D	DHDZ 708249	NONE	144.151.178.140	N/A	026 A 02 D

Fig. 7a

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EPN: SOUTHFIELD

EPN	HOST PORT	CKT ID	ALARM STATUS	CSU_A	CSU_Z	REMOTE PORT
17	001 D 10 A	DHDZ 708302	NONE	144.151.178.17	N/A	013 A 02 A
	001 D 10 B	DHDZ 708303	NONE	144.151.178.18	N/A	013 A 02 B
	001 D 10 C	DHDZ 708304	NONE	144.151.178.19	N/A	013 A 02 C
	001 D 10 D	DHDZ 708305	NONE	144.151.178.20	N/A	013 A 02 D
18	001 D 11 A	DHDZ 708306	NONE	144.151.178.33	N/A	014 A 02 A
	001 D 11 B	DHDZ 708307	NONE	144.151.178.34	N/A	014 A 02 B
	001 D 11 C	DHDZ 708308	NONE	144.151.178.35	N/A	014 A 02 C
	001 D 11 D	DHDZ 708309	NONE	144.151.178.36	N/A	014 A 02 D
19	002 A 11 A	DHDZ 708310	NONE	144.151.178.49	N/A	015 A 02 A
	002 A 11 B	DHDZ 708311	NONE	144.151.178.50	N/A	015 A 02 B
	002 A 11 C	DHDZ 708312	NONE	144.151.178.51	N/A	015 A 02 C
	002 A 11 D	DHDZ 708313	NONE	144.151.178.52	N/A	015 A 02 D
20	002 B 10 A	DHDZ 708314	NONE	144.151.178.113	N/A	016 A 02 A
	002 B 10 B	DHDZ 708315	NONE	144.151.178.114	N/A	016 A 02 B
	002 B 10 C	DHDZ 708316	NONE	144.151.178.115	N/A	016 A 02 C
	002 B 10 D	DHDZ 708317	NONE	144.151.178.116	N/A	016 A 02 D
21	003 A 10 A	DHDZ 708318	NONE	144.151.178.129	N/A	017 A 02 A
	003 A 10 B	DHDZ 708319	NONE	144.151.178.130	N/A	017 A 02 B
	003 A 10 C	DHDZ 708320	NONE	144.151.178.131	N/A	017 A 02 C
	003 A 10 D	DHDZ 708321	NONE	144.151.178.132	N/A	017 A 02 D
22	003 A 11 A	DHDZ 708322	NONE	144.151.178.145	N/A	018 A 02 A
	003 A 11 B	DHDZ 708323	NONE	144.151.178.146	N/A	018 A 02 B
	003 A 11 C	DHDZ 708324	NONE	144.151.178.147	N/A	018 A 02 C
	003 A 11 D	DHDZ 708325	NONE	144.151.178.148	N/A	018 A 02 D

Fig. 7b

LATEST (TIMES) ALARM MESSAGE...

-MIC1 ALARM LOG-

12/29 13:30 (1) 12/29 13:29 ->03E12 SNC-LINK MINOR
12/21 21:29 (6) 12/19 14:02 ->05A0401 PGATE-PT MINOR
12/21 04:35 (6) 12/21 01:27 ->37 A-PNC FIBER-LK MINOR
12/21 04:34 (6) 12/21 01:35 ->35 A-PNC FIBER-LK MAJOR
12/21 04:34 (6) 12/21 01:35 ->37 A-PNC FIBER-LK MAJOR
12/21 04:34 (6) 12/21 01:26 ->25Ā0101 SYS-LINK MINOR (@EPN 30-SAGINAW)
12/21 04:34 (4) 12/21 01:37 ->38 A-PNC FIBER-LK MAJOR
12/21 04:34 (3) 12/21 01:35 ->26Ā0101 SYS-LINK MINOR (@EPN 31-SAGINAW)
12/21 04:21 (7) 12/21 01:26 ->36 A-PNC FIBER-LK MINOR
12/21 04:21 (6) 12/21 01:26 ->38 A-PNC FIBER-LK MINOR
12/21 04:21 (6) 12/21 01:26 ->35 A-PNC FIBER-LK MINOR
12/21 04:20 (5) 12/21 01:40 ->03Ē21C DS1-FAC MINOR (@EPN 31-SAGINAW)
12/21 04:20 (5) 12/21 01:27 ->PN 28 EXP-PN MAJOR
12/21 04:20 (5) 12/21 01:35 ->36 A-PNC FIBER-LK MAJOR
12/21 04:20 (4) 12/21 01:26 ->23Ā0101 SYS-LINK MINOR (@EPN 28-SAGINAW)
12/21 04:20 (3) 12/21 01:39 ->PN 31 EXP-PN MAJOR
12/21 04:20 (3) 12/21 01:41 ->03Ē20 SN-CONF MAJOR (EPN 31-SAGINAW)
12/21 04:20 (4) 12/21 01:35 ->PN 30 EXP-PN MAJOR
12/21 04:20 (2) 12/21 01:40 ->02Ē20 SN-CONF MAJOR (EPN 29-SAGINAW)
12/21 04:18 (2) 12/21 01:26 ->26A01 EXP-INTF MINOR (@EPN 31-SAGINAW)
12/21 04:18 (2) 12/21 01:29 ->24A0101 SYS-LINK MINOR (@EPN 29-SAGINAW)
12/21 02:15 (4) 12/21 01:40 ->02E01A DS1-FAC MINOR (EPN 28-SAGINAW)
12/21 02:15 (3) 12/21 01:35 ->03E03 SN-CONF MAJOR (EPN 30-SAGINAW)
12/21 02:10 (3) 12/21 01:37 ->PN 29 EXP-PN MAJOR
12/21 02:10 (3) 12/21 01:39 ->03Ē21D DS1-FAC MINOR (EPN 31-SAGINAW)
12/21 02:05 (2) 12/21 01:44 ->25A01 EXP-INTF MINOR (@EPN 30-SAGINAW)
12/21 02:03 (2) 12/21 01:39 ->02E21A DS1-FAC MINOR (EPN 29-SAGINAW)
12/21 02:01 (2) 12/21 01:42 ->02E03 SN-CONF MAJOR (EPN 28-SAGINAW)
12/21 02:01 (2) 12/21 01:39 ->02E21B DS1-FAC MINOR (EPN 29-SAGINAW)
12/21 02:01 (2) 12/21 01:39 ->02E21D DS1-FAC MINOR (EPN 29-SAGINAW)

Fig. 8

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- MIC1 AGENT STATUS -
(AS OF THU DEC 30 08:35:25 1999 CDT)

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SPLIT/ SKILL	AGENTS ACTIVE	QUEUED CALLS	LONGEST WAIT	GATE NAME
99	2	0	0:00	SYSTEM PORTS
200	115	57	3:44	STHFLD UNIV 200
204	1	0	0:00	MI CSST
231	3	0	0:00	HOTC INBOUND
256	4	0	0:00	MI ASST COACH
260	1	0	0:00	KALAMAZOO ACE
263	1	0	0:00	SOUTHFIELD ACE
	127	57	3:44	** TOTALS **

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Fig. 9

BETHUNE-EPN 14
(CABINET 8)

PORT\CARD	08A03	08A04	08A05	08A06
1	59400	59424	--	--
2	59401	59425	--	--
3	59402	59426	--	--
4	59403	59427	--	--
5	59404	59428	--	--
6	59405	59429	--	--
7	59406	59430	--	--
8	59407	59431	--	--
9	59408	59432	--	--
10	59409	59433	--	--
11	59410	59434	--	--
12	59411	59435	--	--
13	59412	59436	--	--
14	59413	59437	--	--
15	59414	59438	--	--
16	59415	59439	--	--
17	59416	59440	--	--
18	59417	59441	--	--
19	59418	59442	--	--
20	59419	--	--	--
21	59420	--	--	--
22	59421	--	--	--
23	59422	--	--	--
24	59423	--	--	--

Fig. 10

- MIC1 TRAFFIC LOAD- 13/20
 (PAST HOUR / PEAK FOR THU DEC 30 08:35:25 1999 CDT)

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Fig. 11

PORT NETWORK	NAME	TDM OCC	PN OCC 20 40 60 80 100					
				20	40	60
1	HOST CABINET 1	16	5						
2	HOST CABINET 2	10	6						
3	HOST CABINET 3	6	4						
4	HOST CABINET 4	6	4						
5	HOST CABINET 4	7	5						
6	HOST CABINET 5	2	1						
7	HOST CABINET 5	9	6						
8	HOST CABINET 6	3	2						
9	HOST CABINET 6	6	4						
10	HOST CABINET 7	3	2						
11	HOST CABINET 7	3	2						
23	HOST CABINET 19	0	0						
24	HOST CABINET 19	2	2						
32	HOST CABINET 27	3	2						
12	HOST CABINET 28	6	4						
13	HOST CABINET 29	8	5						
14	BETHUNE	0	0						
25	KALAMAZOO	2	7						
26	KALAMAZOO	4	11						
27	KALAMAZOO	2	7						
28	SAGINAW	3	8						
29	SAGINAW	4	11						
30	SAGINAW	2	6						
31	SAGINAW	1	2						
17	SOUTHFIELD	2	6						
18	SOUTHFIELD	2	5						
19	SOUTHFIELD	3	10						
20	SOUTHFIELD	2	7						
21	SOUTHFIELD	2	5						
22	SOUTHFIELD	2	7						

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184

186 190

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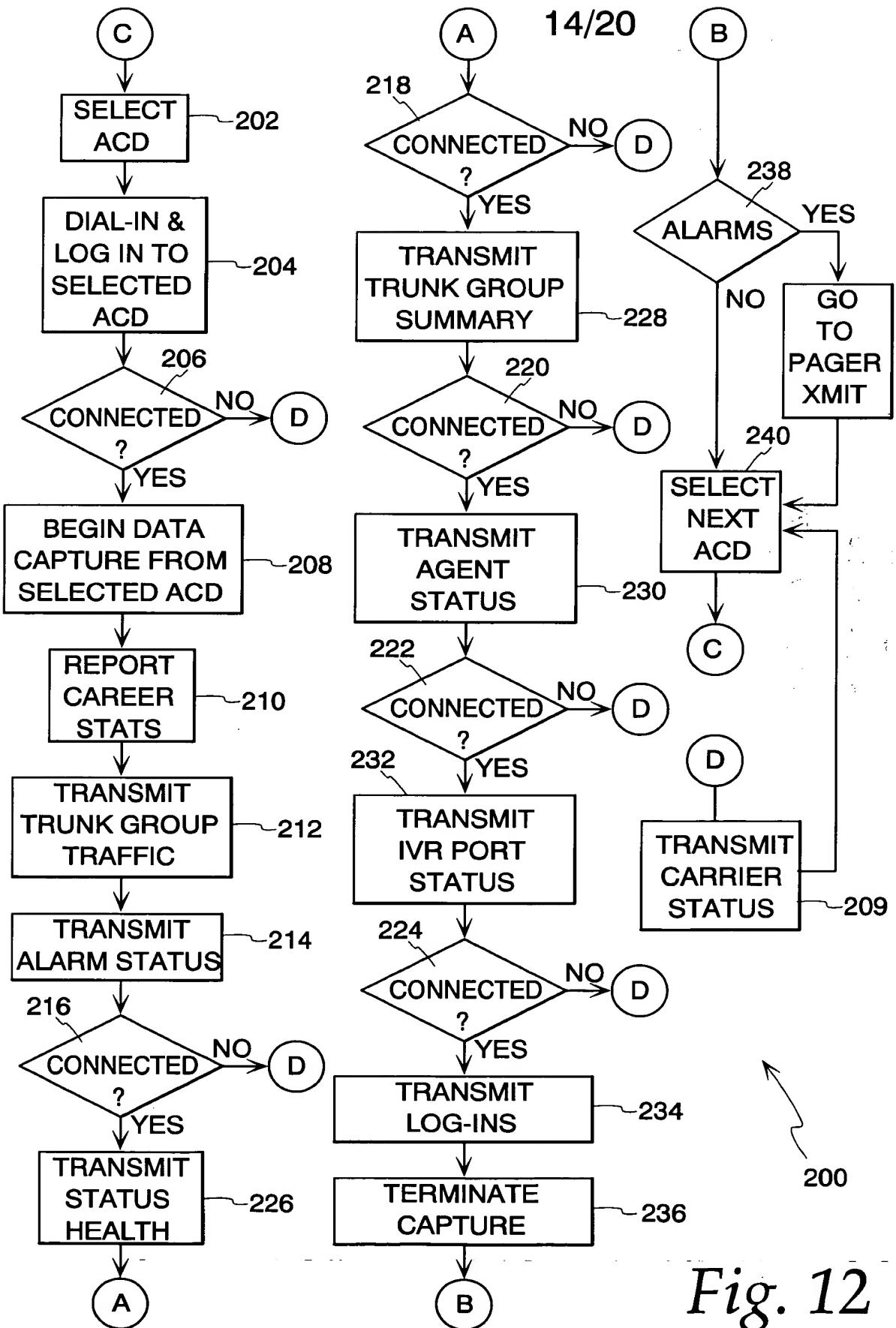
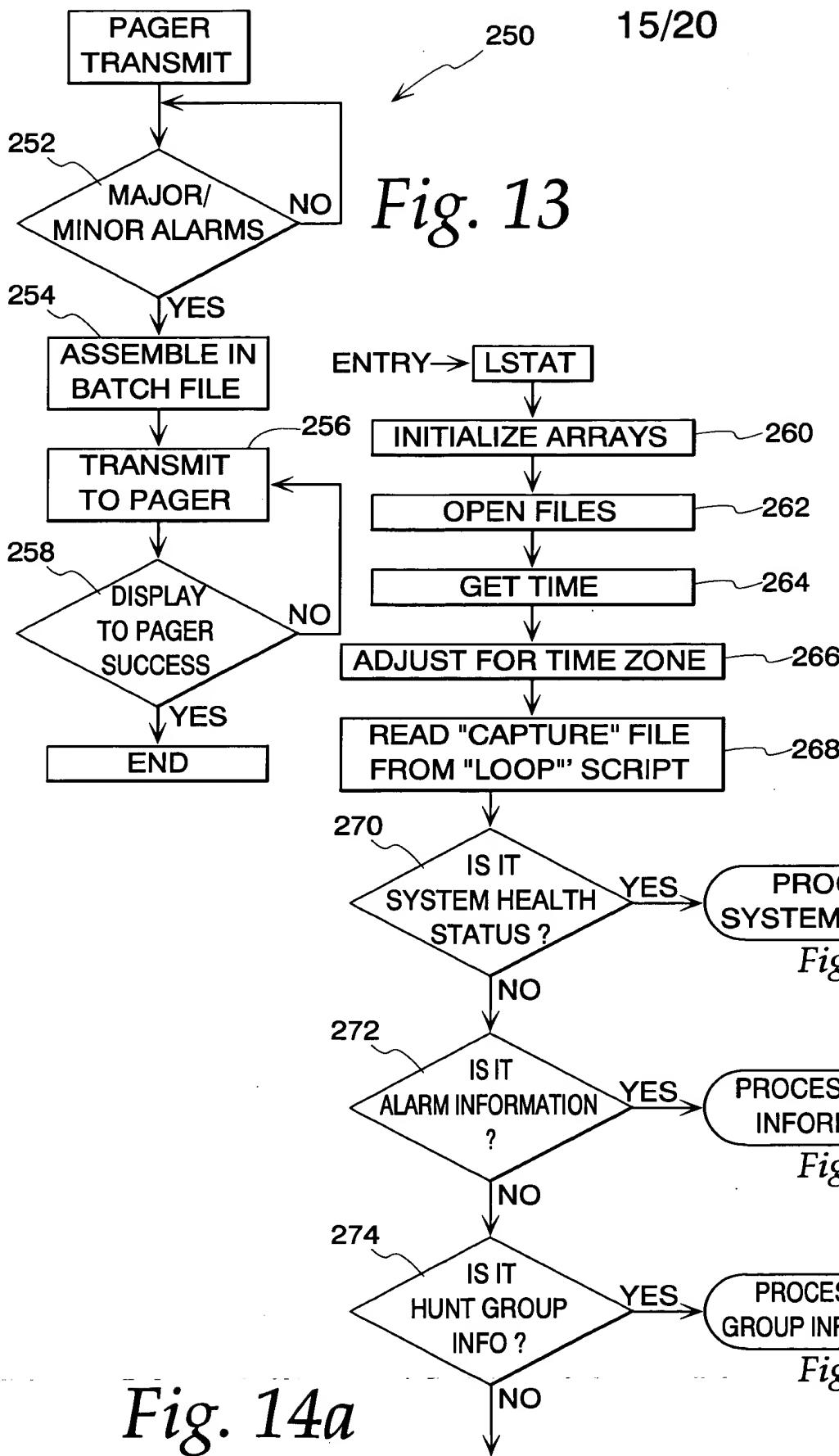
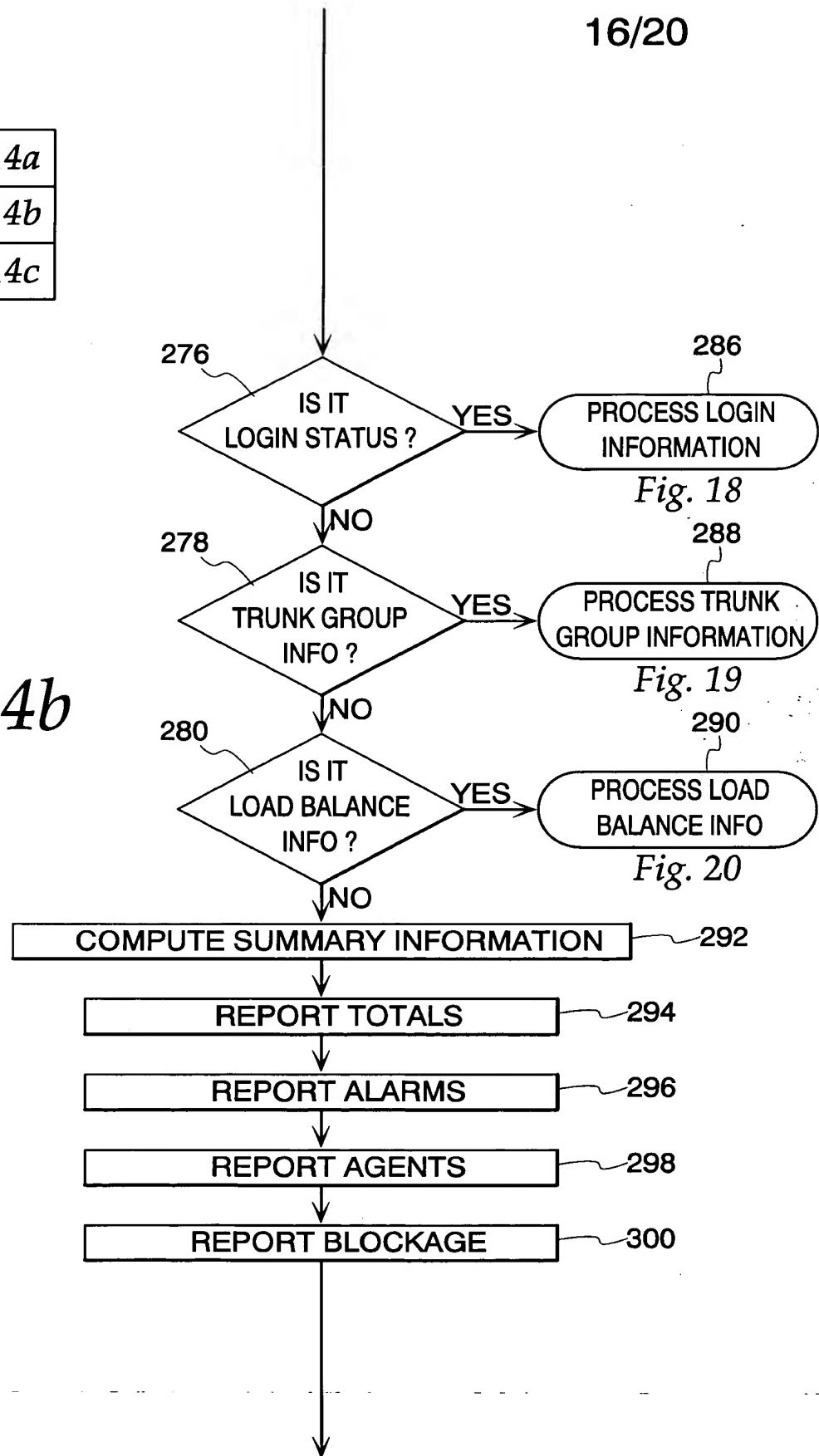


Fig. 12



<i>Fig. 14a</i>
<i>Fig. 14b</i>
<i>Fig. 14c</i>

Fig. 14b

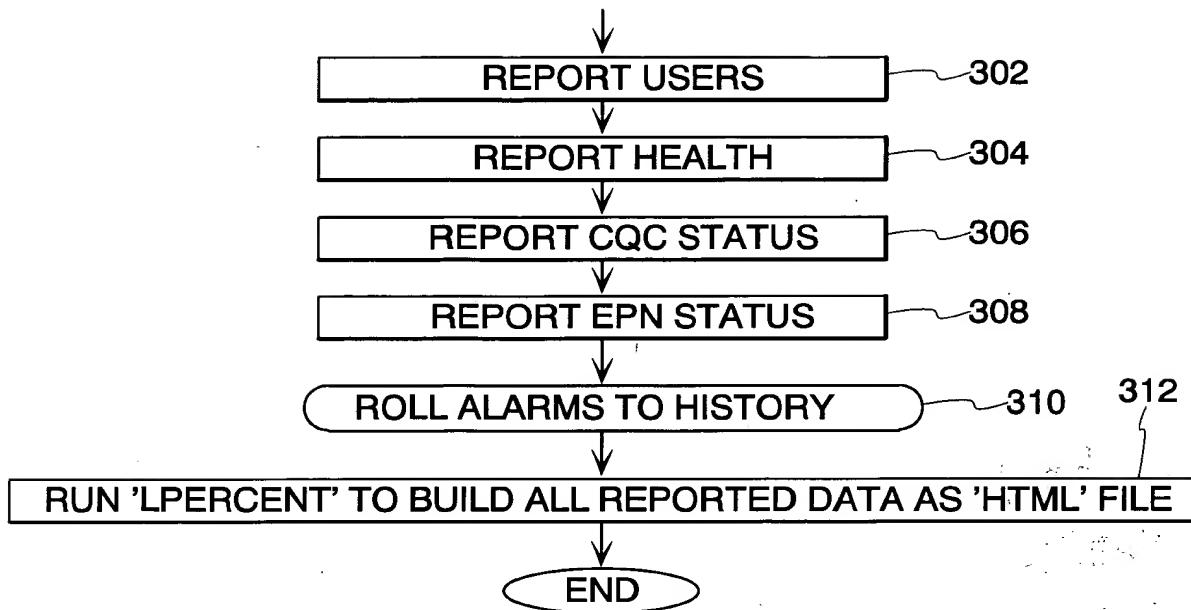


Fig. 14c

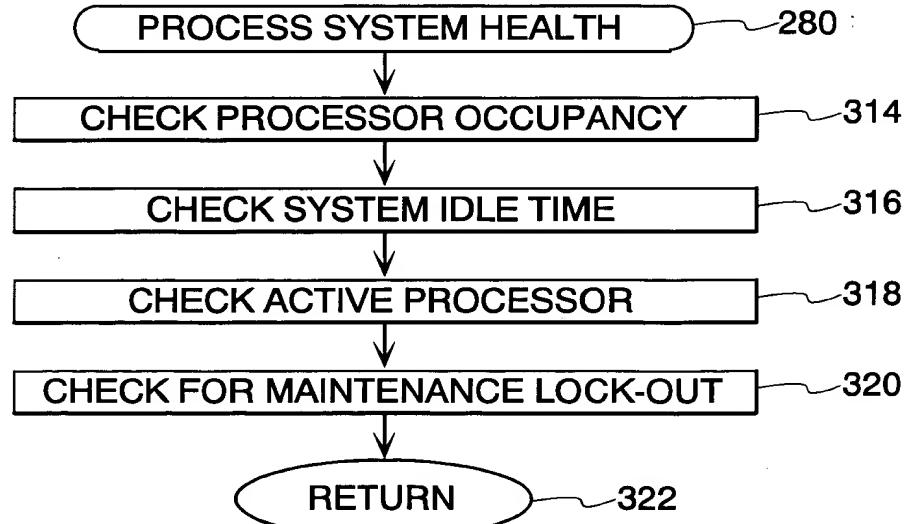


Fig. 15

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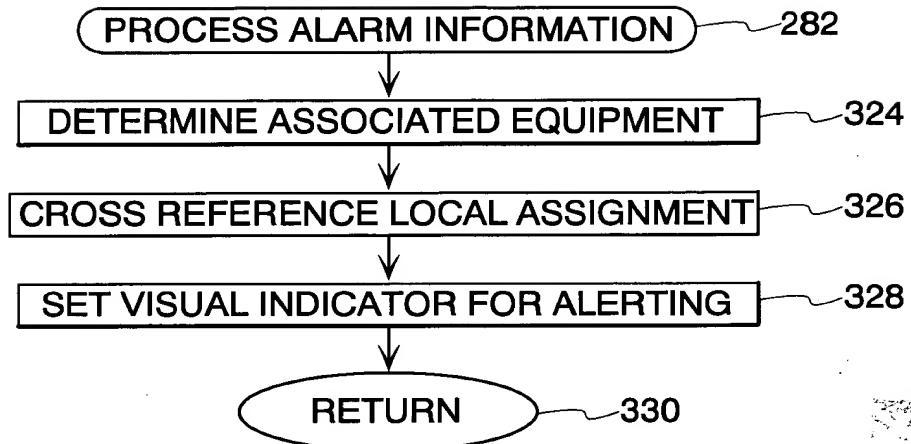


Fig. 16

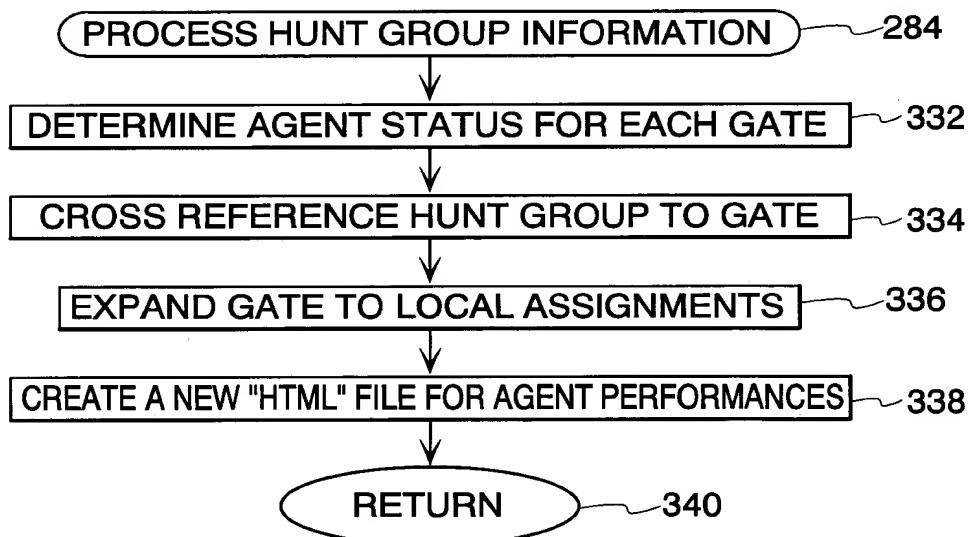


Fig. 17

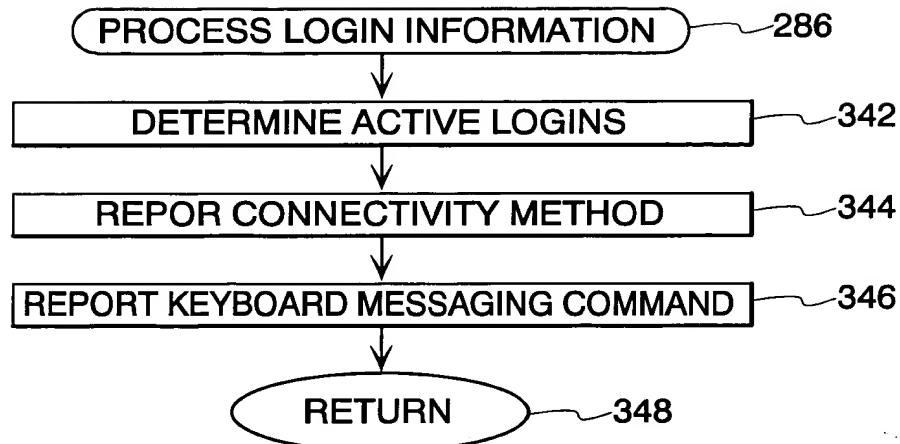


Fig. 18

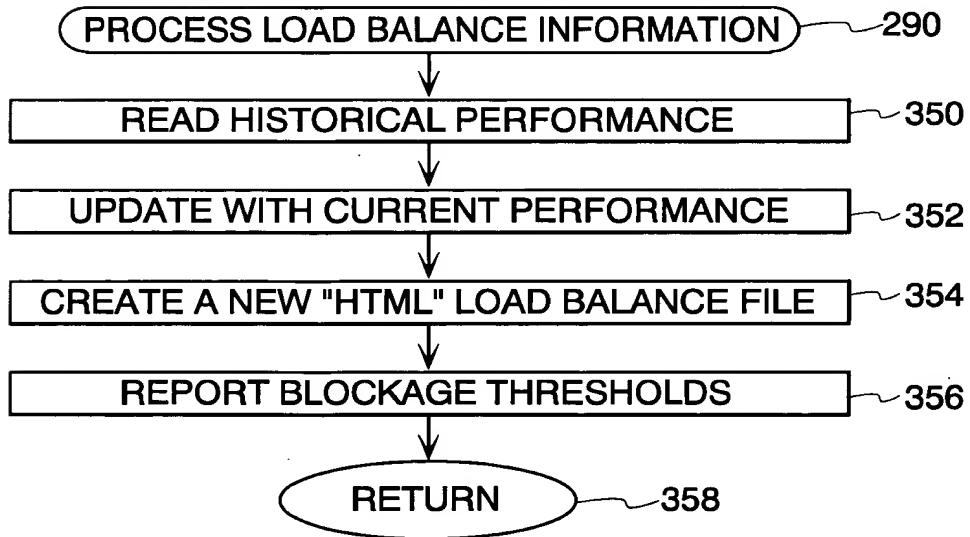


Fig. 19

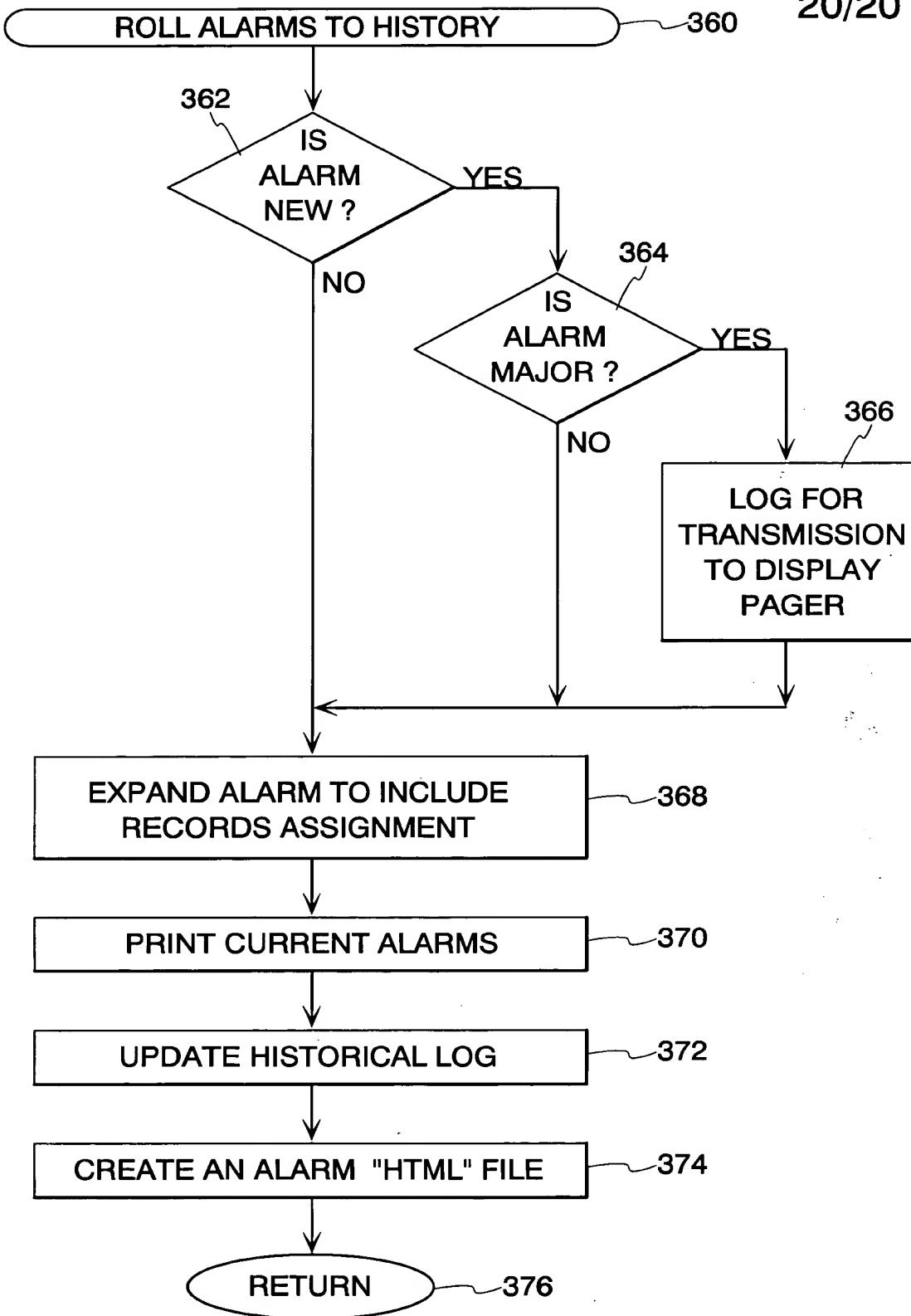


Fig. 20